

AMENDMENTS TO THE SPECIFICATION:

Page 7, replace lines 9-17, with the following amended paragraphs:

In the course of development research, it has been postulated that the results obtained are provided by the amorphous glass fibers being converted during the burn-through tests into a ceram glass which forms a fiber mat in which the fiber integrity is maintained, thus preventing high temperatures from penetrating the insulation blanket containing the fibers.
~~according-to-the-invention.~~

A batch blend forms fibers which are heat and fire
resistant, temperatures ~~-Temperatures-~~ as high as 2,200°F
~~are-~~ being withstood, as in aircraft insulation blankets,
for several hours.

Page 8, replace lines 13-24, with the following amended paragraph:

COMPOSITIONAL RANGE

<u>Oxides</u>	<u>Oxide Weight %</u>			
SiO ₂	10.23	to	81.81	
Al ₂ O ₃	2.0	to	-25.91-	<u>26.0</u>
Na ₂ O	0	to	5.80	
K ₂ O	0	to	-5.70-	<u>11.0</u>
CaO	-3.76-	<u>3.0</u>	to	-10.5- <u>15.0</u>
MgO	-1.84	<u>0</u>	to	10.5
Fe ₂ O ₃ +FeO	-4.64-	<u>1.0</u>	to	-15.5- <u>18.0</u>
TiO ₂	0	to	-3.0-	<u>4.0</u>
ZrO ₂	0	to	5.0	
MnO	0	to	6.0	

Page 9, replace lines 1-15, with the following amended paragraphs:

Set forth below are illustrative examples of exemplary-embodiments of the present invention.

EXAMPLE 1 (Claim 3)

<u>Oxides</u>	<u>Weight Percent</u>
SiO ₂	46.23
Al ₂ O ₃	25.91
Na ₂ O	2.40
K ₂ O	0.82
CaO	8.27
MgO	4.06
Fe ₂ O ₃ +FeO	10.22
TiO ₂	1.58
ZrO ₂	0.01
P ₂ O ₅	0.28
MnO	0.23

Page 10, replace lines 14-26, with the following amended paragraph:

EXAMPLE 4 (Claim 8)

<u>Oxides</u>	<u>Weight Percent</u>
SiO ₂	53.69
Al ₂ O ₃	13.84
Na ₂ O	2.79
K ₂ O	0.95
CaO	9.61
MgO	4.71
Fe ₂ O ₃ +FeO	11.87
TiO ₂	1.83
ZrO ₂	-0.08- 0.00
P ₂ O ₅	-0.32- 0.38
MnO	-0.27- 0.33

Page 11, replace lines 1-13, with the following amended paragraph:

EXAMPLE 5 (Claim 9)

<u>Oxides</u>	<u>Weight Percent</u>
SiO ₂	55.25
Al ₂ O ₃	18.25
Na ₂ O	2.30
K ₂ O	1.80
CaO	8.38
MgO	3.97
Fe ₂ O ₃ +FeO	8.50
TiO ₂	1.09
ZrO ₂	0.31
P ₂ O ₅	0.20
MnO	0.18

EXAMPLE 6 (Claim 10)

<u>Oxides</u>	<u>Weight Percent</u>
SiO ₂	67.55
Al ₂ O ₃	9.76
Na ₂ O	1.96
K ₂ O	0.67
CaO	6.74
MgO	3.30
Fe ₂ O ₃ +FeO	8.32
TiO ₂	1.28
ZrO ₂	0.01
P ₂ O ₅	0.22
MnO	0.19

Page 12, replace lines 1 - 13, with the following amended paragraph:

EXAMPLE 7 (Claim 12)

<u>Oxides</u>	<u>Weight Percent</u>
SiO ₂	70.02
Al ₂ O ₃	10.14
Na ₂ O	2.03
K ₂ O	0.01
CaO	6.53
MgO	4.26
Fe ₂ O ₃ +FeO	5.26
TiO ₂	1.33
ZrO ₂	0
P ₂ O ₅	0
MnO	0

Page 12, after line 13, insert the following new paragraphs:

Set forth below is a table which provides literal support for the respective compositions of oxides for each of Claims 1-20.

CLAIMS TABLE I

<u>Oxides</u>	<u>Claim 1 wt%</u>	<u>Claim 2 wt%</u>	<u>Claim 3 wt%</u>	<u>Claim 4 wt%</u>	<u>Claim 5 wt%</u>	<u>Claim 6 wt%</u>
SiO ₂	46.0-71.0	46.0-71.0	46.23	46.23	61.03	64.95
Al ₂ O ₃	9.0-12.5	9.0-12.5	25.91	25.91	11.71	11.13
Na ₂ O	0 - 2.00		2.40	2.40	2.35	2.24
K ₂ O	0 - 2.00		0.82	0.82	0.80	2.24
CaO	3.76-10.5	1.76-10.5	8.27	8.27	8.10	3.76
MgO	1.84-10.5	1.84-10.5	4.06	4.06	3.97	3.77
Fe ₂ O ₃ +FeO	4.64-15.5	4.64-15.5	10.22	10.22	9.99	9.51
TiO ₂	0.72- 3.0	0.72- 3.0	1.58	1.58	1.55	1.47
ZrO ₂			0.01		0	0.01
P ₂ O ₅			0.28	0.28	0.27	0.70
MnO			0.23	0.23	0.23	0.22

<u>Oxides</u>	<u>Claim 7 wt%</u>	<u>Claim 8 wt%</u>	<u>Claim 9 wt%</u>	<u>Claim 10 wt%</u>	<u>Claim 11 wt%</u>	<u>Claim 12 wt%</u>
SiO ₂	64.95	53.69	55.25	67.55	67.55	70.02
Al ₂ O ₃	11.13	13.84	18.25	9.76	9.76	10.14
Na ₂ O	2.24	2.79	2.30	1.96	1.96	2.03
K ₂ O	2.24	0.95	1.80	0.67	0.67	0.01
CaO	3.76	9.61	8.38	6.74	6.74	6.53
MgO	3.77	4.71	3.97	3.30	3.30	4.26
Fe ₂ O ₃ +FeO	9.51	11.87	8.50	8.32	8.32	5.26
TiO ₂	1.47	1.83	1.09	1.28	1.28	1.33
ZrO ₂		0	0.31	0.01		0
P ₂ O ₅	0.70	.38	0.20	0.22	0.22	0
MnO	0.22	0.33	0.18	0.19	0.19	0

<u>Oxides</u>	<u>Claim 13 wt%</u>	<u>Claim 14 wt%</u>	<u>Claim 15 wt%</u>	<u>Claim 16 wt%</u>	<u>Claim 17 wt%</u>	<u>Claim 18 wt%</u>
SiO ₂	46.47	66.92	55.50	67.83	70.31	46.47
Al ₂ O ₃	25.91	11.42	18.33	9.80	10.18	25.91
Na ₂ O	2.41	2.59	2.31	1.97	2.03	2.41
K ₂ O	0.95	2.59	1.81	0.67	0.01	0.95
CaO	8.31	3.81	8.42	6.77	6.55	8.31
MgO	4.08	4.01	3.99	3.31	4.27	4.08
Fe ₂ O ₃ +FeO	10.27	8.66	8.54	8.36	5.28	10.27
TiO ₂	1.60	0.72	1.10	1.29	1.37	
ZrO ₂						
P ₂ O ₅						
MnO						

<u>Oxides</u>	<u>Claim 19</u> <u>wt%</u>	<u>Claim 20</u> <u>wt%</u>
SiO ₂	66.92	70.31
Al ₂ O ₃	11.42	10.18
Na ₂ O	2.59	2.03
K ₂ O	2.59	0.01
CaO	3.81	6.55
MgO	4.01	4.27
Fe ₂ O ₃ +FeO	8.66	5.28
TiO ₂		
ZrO ₂		
P ₂ O ₅		
MnO		

Page 13, replace lines 13-16, with the following amended paragraph:

It was determined that calcium oxide, sodium oxide, potassium oxide, and magnesium oxide may be replaced or utilized in conjunction with either Li_2O or B_2O_3 , and further that iron should preferably be present in the form of $\text{Fe}_2\text{O}_3 + \text{FeO}$, and that the glass fibers should be essentially free of Na_2O , K_2O , and ZrO_2 .

Page 14, replace lines 4-16, with the following amended paragraph:

COMPOSITIONAL RANGE

	<u>Oxides</u>	<u>Oxide Weight %</u>
5	SiO_2	49 to 76
	Al_2O_3	2 to 23 <u>26</u>
	B_2O_3	0 to 9
	Li_2O	0 to 9
10	Na_2O	0 to 12 <u>13</u>
	K_2O	0 to 6
	CaO	3 to 15
	MgO	<u>0</u> 2 to 15
	$\text{Fe}_2\text{O}_3 + \text{FeO}$	1 to 18
15	TiO_2	0 to 4
	P_2O_5	0 to 4

Page 16, replace lines 1-25, with the following amended paragraphs:

Set forth below are illustrative examples of the later developed added embodiments of the invention.

EXAMPLE 8 (Claim 24)

<u>Oxides</u>	<u>Weight Percent</u>
SiO ₂	67.55
Al ₂ O ₃	9.76
Na ₂ O	0.67
K ₂ O	1.96
CaO	6.74
MgO	3.30
Fe ₂ O ₃ +FeO	8.32
TiO ₂	1.28
ZrO ₂	0.01
P ₂ O ₅	0.22
MnO	0.19

EXAMPLE 9 (Claim 30)

<u>Oxides</u>	<u>Weight Percent</u>
SiO ₂	68.00
Al ₂ O ₃	9.06
B ₂ O ₃	2.01
Na ₂ O	2.53 <u>2.33</u>
K ₂ O	0.42
CaO	6.23
MgO	3.06
Fe ₂ O ₃ +FeO	7.70
TiO ₂	1.19

Page 17, replace lines 1-20, with the following amended paragraphs:

EXAMPLE 10 (Claim 26)

<u>Oxides</u>	<u>Weight Percent</u>
SiO ₂	67.36
Al ₂ O ₃	9.76
Li ₂ O	2.86
Na ₂ O	1.00
CaO	5.28
MgO	3.80
Fe ₂ O ₃ +FeO	8.46
TiO ₂	1.48

EXAMPLE 11 (Claim 31)

<u>Oxides</u>	<u>Weight Percent</u>
SiO ₂	65.24
Al ₂ O ₃	2.50
Na ₂ O	13.00
B ₂ O ₃	6.00
CaO	6.70
MgO	1.85
Fe ₂ O ₃ +FeO	4.01
TiO ₂	0.70

Page 18, after line 10, insert the following new paragraphs:

Set forth below is a table which provides literal support for the respective compositions of oxides for each of Claims 21- 35:

CLAIMS TABLE II

<u>Oxides</u>	<u>Claim 21 wt%</u>	<u>Claim 22 wt %</u>	<u>Claim 23 wt%</u>	<u>Claim 24 wt%</u>	<u>Claim 25 wt%</u>	<u>Claim 26 wt%</u>
SiO ₂	49.0-76.0	67.55	67.55	67.55	49.0	67.36
Al ₂ O ₃	2.0-12.5	9.76	9.76	9.76	23.0	9.76
Na ₂ O	0 - 12.0	0.67	0.67	0.67	1.04	1.00
K ₂ O	0 - 2.0			1.96		
CaO	3.0-15.0	6.74	6.74	6.74	8.31	5.28
MgO	2.0-15.0	3.30	3.30	3.30	4.08	3.80
Fe ₂ O ₃ +FeO	1.0-18.0	8.32	8.32	8.32	10.27	8.46
TiO ₂	0 - 4.0	1.28	1.28	1.28	1.59	1.48
ZrO ₂		0.01	0.01	0.01		
P ₂ O ₅	0 - 4.0	0.22	0.22	0.22		
MnO		0.19	0.19	0.19		
B ₂ O ₃	0 - 9	1.96			2.35	
Li ₂ O	0 - 9		1.96			2.86

<u>Oxides</u>	<u>Claim 27 wt%</u>	<u>Claim 28 wt %</u>	<u>Claim 29 wt%</u>	<u>Claim 30 wt%</u>	<u>Claim 31 wt%</u>	<u>Claim 32 wt%</u>
SiO ₂	65.16	56.01	66.51	68.00	65.24	67.50
Al ₂ O ₃	11.18	13.92	9.34	9.06	2.50	9.34
Na ₂ O		2.92	2.81	2.33	13.00	
K ₂ O		0.96		0.42		0.81
CaO	7.14	8.40	6.41	6.23	6.70	8.41
MgO	3.99		2.99	3.06	1.85	2.00
Fe ₂ O ₃ +FeO	8.95	11.94	8.53	7.70	4.01	8.53
TiO ₂	0.57	1.84		1.19	0.70	1.10
ZrO ₂						
P ₂ O ₅						
MnO						
B ₂ O ₃	3.01	4.01		2.01	6.00	
Li ₂ O			3.41			2.31

<u>Oxides</u>	<u>Claim 33 wt%</u>	<u>Claim 34 wt %</u>	<u>Claim 35 wt%</u>
SiO ₂	46.47	66.92	70.31
Al ₂ O ₃	25.91	11.42	8.30
Na ₂ O	2.55	2.59	2.03
K ₂ O			
CaO	8.31	4.02	6.55
MgO	4.08	0.81	3.27
Fe ₂ O ₃ +FeO	10.27	10.00	8.53
TiO ₂			
ZrO ₂			
P ₂ O ₅			
MnO			
B ₂ O ₃	2.41	4.24	1.01
Li ₂ O			